

Research Activity @ GCE Karad

Faculty are actively associated with various research and development activities. Active research is carried out in the following diversified areas in various research centers/departments.

Research Center/Department	Area of Research
Civil Engineering	GIS & Remote Sensing Application for Water Resources Engineering, Geo-hazards, Zonation Mapping Civil Engineering, Environmental Impact Assessment, Contaminant Transport Modeling, NDT, Structural Health Monitoring, Modern Concrete Designing, Concrete Composites. Structural Engineering.
Electrical Engineering	Condition monitoring, Electric Machines and drives, Smart Grid, Robust Control and Estimation of uncertain systems, FACTS.
Mechanical Engineering	Thermal, Micronano Engineering, manufacturing mechanics and materials, biomechanics, biosystems
Electronic and Tele Communication	Automation, Communication and control, Image Processing, Embedded Systems.
Information Technology	Network Security, data mining, Big data analytics, Deep Learning, IOT, Parallel Computing, Wireless Network, Internet Routing, Image Processing.
MCA	Big data analytics, Machine Learning, Image Processing, Networking, Information Systems, Data mining.
Mathematics	Group Symmetry techniques, Mathematics for Nonlinear systems
Physics	Nanomaterials
Chemistry	Synthetic Organic Chemistry, Nanomaterials, Green Chemistry.

Funding for executing research and development is raised from various funding agencies such as AICTE, DST, TEQIP etc. [Click here](#) for various sponsored research projects.

Many research scholars carry out their research at research centers at GCEK. The Institute has 13 recognized PhD guides. No of PhD completed so far is 07 NO of Ongoing PhDs are 38.

The following table shows the list of students recognized research guides and research scholars. The details are available here. [Click here](#)

The research output is reflected in terms of publications [Click here](#), Patents [Click here](#), PhD completed, Research Project completed.

The entire R & D activity adds a value in quality teaching learning.